



Statewide Soil Background Summary Statistics Opportunity – Raleigh, NC

ABOUT OUR AGENCY

The NC Department of Environmental Quality (DEQ) is the lead stewardship agency for the protection of North Carolina's environmental resources.

The organization, administers regulatory programs designed to protect air quality, water quality, and the public's health, and also works to advance an all-of-the-above energy strategy that fits North Carolina's needs. DEQ also offers technical assistance to businesses, farmers, local governments, and the public and encourages responsible behavior with respect to the environment through education programs provided at DEQ facilities and through the state's school system.

As new technologies, processes or industry operations are proposed to be implemented in North Carolina, DEQ regulatory agencies may be requested to examine the collective impact of such projects on the environment and surrounding communities.

ABOUT THE DIVISION

The primary purpose of the Division of Waste Management (DWM) is to protect public health and the environment by assuring that solid and hazardous wastes and underground storage tanks are managed properly, and that existing contamination is cleaned up. This is accomplished through the Hazardous Waste, Solid Waste, Superfund, and Underground Storage Tank Programs. In addition, the Brownfields Program promotes redevelopment of abandoned, idle and/or under-utilized sites. All of these Programs base their cleanup and risk management decisions on health-based numerical standards for the hazardous substances and pollutants found in in soil and groundwater. In some areas of the state, natural conditions result in elevated metals concentrations in soil or groundwater that are unrelated to the man-made contamination found at a site. Our Agency and the public need the best available information about the concentrations of naturally occurring metals in the environment in order to support cleanup and risk management decisions.

The program will run approximately 10 weeks starting on or around May 18, 2020.

Read more about our agency here: <https://deq.nc.gov/>

MAJOR DUTIES

- Identify and delete statistical outliers for statistics and compute summary statistics for a database of statewide soil metals sample analyses
- Design effective graphic representation of statistics identified for publication
- Work alongside of supervisor to assist in the process of writing and preparation the of publication

- Student will be given the opportunity to learn specific requirements for summary statistics of environmental sampling data
- Student will leave STEP with a published NC DEQ product

POSITION QUALIFICATIONS:

- Applicants must be at least 18 years old by January 1, 2020
- 2.0 Major GPA
- Graduation date of December/May 2020 or 2021, Rising Senior or Junior
- Currently enrolled in undergraduate program
- Desired Majors: Statistics, Mathematics, Environmental Science
 - ****Student will need coursework in Statistics****

MANAGEMENT DESIRED QUALIFICATIONS

- Intermediate to high-level statistics coursework is preferred
- Initiative to learn the specific needs for summary statistics of environmental sampling data
- Excellent verbal and written communication skills
- Strong interpersonal skills and ability to work with colleagues and stakeholders at all levels
- Collaborative team member who exhibits initiative and leadership skills
- Independent thinker and problem solver
- Familiarity with statistical methods appropriate for laboratory analytical data is preferred
- Ability to use SAS JMP is preferred

SPECIAL NOTES

- Housing allowance is not provided
- Summer hourly rate is \$15.00
- Pay cycle is bi-weekly
- Summer opportunity will be approximately 10 weeks
- Summer opportunity will work up to 40 hours each week

APPLICATION INSTRUCTIONS

Send resume and cover letter to DEQInternships@ncdenr.gov with **Subject Line: Statewide Soil Background Summary Statistics Application**

Application deadline of 3/25/2020 *(or may remain open until we have suitable applicant pool)*

IMPORTANT DATES

3/25/20– Application Deadline

3/26/20 – 4/7/20 HR & Hiring Manager App Review

4/13/20 – 4/21/20 Interviews (schedules permitting)

5/18/20 – 7/24/20 STEP Assignment Dates (approximate start/ end dates, flexible)

QUESTIONS? Please contact NC Department of Environmental Quality, HR
DEQInternships@ncdenr.gov